

Amendments to the Claims

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

Listing of Claims:

1. (currently amended) A modular/configurable rotary die for a rotary die cutter for making a corrugated carton blank, from which a carton having at least one quick closing continuous closure panel can be erected, from a stock sheet of corrugated material, the rotary die comprising:

a plurality of at least five interlocking modular die components which are capable of being combined in multiple configurations for producing multiple carton sizes, said die components being mountable directly on a roller of a rotary die cutter, the roller having a threaded hole pattern, where the die components are interlocked with one another, each die component having at least one blade thereon for at least one of scoring, creasing and cutting a corrugated sheet to cooperatively form a corrugated carton blank in a rotary die cutter from a stock sheet of corrugated material,

a plurality of adjustable die mounting clamps having means for securing the die components anywhere on the roller of the rotary die cutter regardless of the threaded hole pattern,

wherein said plurality of die components include, with reference to the three dimensions of the carton to be erected from the corrugated carton blank, at least one length die component which determines the length of the carton, at least one height die component which determines the height of the carton, and at least two closure panel die components which

determine the width of the carton and produce respective fold-in panels of said at least one quick closing continuous closure panel,

wherein each of said closure panel die components includes:

two slit/cut blades each arranged for slitting a 45 degree angled line on a fold-in panel of a quick closing continuous closure panel,

two perforation blades each arranged to cut and score the corrugated stock sheet to form a perforated straight line that is perpendicular to the length of the carton blank, and

one scoring blade arranged to score a straight line at the bottom of the fold-in panel, parallel to the length of the carton blank and between the two perforated lines formed by said two perforation blades.

2. (canceled)

3. (canceled)

4. (canceled)

5. (currently amended) The rotary die according to claim 4¹, wherein said means for securing of the adjustable die mounting clamps include means for adjustably positioning slots with screws in the clamps relative to threaded attachment for threading into threaded holes in a the roller of a rotary die cutter on which the die components are mounted.

6. (currently amended) The rotary die according to claim 41, wherein said plurality of die components include components having slots on their outer surfaces for receiving said adjustable die mounting clamps therein ~~when for securing the die components are mounted on a~~ the roller of ~~a~~ the rotary die cutter.

7. (canceled)

8. (previously presented) The rotary die according to claim 1, wherein said plurality of die components include four of said closure panel die components which determine the width of the carton and cooperate to form a corrugated carton blank having two quick closing continuous closure panels that run parallel to each other end-to-end along the length of the carton blank on respective sides of the carton blank.

9. (previously presented) The rotary die according to claim 8, wherein said plurality of die components further include:

(a) four score die components that determine the length of a carton to be erected from the corrugated carton blank; and

(b) four crease die components that determine the height of the carton.

10. (previously presented) The rotary die according to claim 8, wherein said plurality of die components further include:

(a) two score/crease panel die components that determine the height and the length of a carton to be erected from the corrugated carton blank; and

(b) one crease die component that determines the height of the carton.

11. (previously presented) The rotary die according to claim 8, wherein each of said closure panel die components further includes a curved cut blade that cuts the outline of a hide away handle on a fold-in panel of a quick closing closure panel formed on the corrugated carton blank.

12. (previously presented) The rotary die according to claim 1, wherein said plurality of die components cooperate to form a corrugated carton blank having one quick closing continuous closure panel that runs along the length of the carton blank on one side thereof and on an opposite side has a plurality of flaps with cut slots separating the flaps.

13. (previously presented) The rotary die according to claim 12, wherein said plurality of die components further include:

(a) four score die components that determine the length of a carton to be erected from the corrugated carton blank;

(b) four crease die components that determine the height of the carton; and

(c) two flap die components that determine the width of the carton and cut the slots for the flaps.

14. (previously presented) The rotary die according to claim 12, wherein said plurality of die components further include:

(a) two score/crease panel die components which determine the height and the length of a carton to be erected from the corrugated carton blank;

(b) one crease die component that determines the height of the carton; and

(c) two flap die components that determine the width of the carton and cut the slots for the flaps.

15. (previously presented) The rotary die according to claim 12, wherein each of said closure panel die components further includes a curved cut blade that cuts the outline of a hide away handle on a fold in panel of a quick closing closure panel formed on the corrugated carton blank.

16. (canceled)

17. (canceled)

18. (canceled)

19. (canceled)

20. (original) The rotary die according to claim 1, wherein said plurality of die components cooperate to form a corrugated carton blank having one quick closing continuous closure panel that runs along the length of the carton blank on one side thereof, which carton blank can be erected to form a telescope half carton.

21. (previously presented) The rotary die according to claim 20, wherein said plurality of die components further include:

(a) two score/crease die components that determine the height and the length of the carton to be erected from the corrugated carton blank; and

(b) one crease die component that determines the height of the carton.

22. (canceled)

23. (canceled)

24. (original) The rotary die according to claim 1, wherein said plurality of die components are pre-assembled in interlocking relation with one another on a brace for positioning the pre-assembled die components on a roller of a rotary die cutter.

25. (original) The rotary die according to claim 1, wherein said plurality of die components are secured in position on a roller of a rotary die cutter.

26. (currently amended) A rotary die cutter for making a corrugated carton blank, from which a carton having at least one quick closing continuous closure panel can be erected, from a stock sheet of corrugated material, comprising:

a rotary die anvil roller;

a rotary die roller having a threaded hole pattern;

a rotary die mounted on the outer circumferential surface of the rotary die roller to form a rotary press with said rotary die anvil roller for producing a corrugated carton blank from a stock sheet of corrugated material fed between the rotary die and the anvil roller;

wherein the rotary die is formed with a plurality of at least five interlocking modular die components which are capable of being combined in multiple configurations for producing multiple carton sizes, said die components being mounted directly on said rotary die roller and interlocked with one another, each die component having at least one blade thereon for at least one of scoring, creasing and cutting a corrugated sheet fed between the rotary die and the anvil roller to cooperatively form a corrugated carton blank from a stock sheet of corrugated material,

a plurality of adjustable die mounting clamps having means for securing the die components anywhere on the roller of the rotary die cutter regardless of the threaded hole pattern,

wherein said plurality of die components include, with reference to the three dimensions of a carton to be erected from a corrugated carton blank, at least one length die component which determines the length of the

carton, at least one height die component which determines the height of the carton, and at least two closure panel die components which determine the width of the carton and produce respective fold-in panels of said at least one quick closing continuous closure panel,

wherein each of said closure panel die components includes:

two slit/cut blades each arranged for slitting a 45 degree angled line on a fold-in panel of a quick closing continuous closure panel,

two perforation blades each arranged to cut and score the corrugated stock sheet to form a perforated straight line that is perpendicular to the length of the carton blank, and

one scoring blade arranged to score a straight line at the bottom of the fold-in panel, parallel to the length of the carton blank and between the two perforated lines formed by said two perforation blades.

27. (previously presented) The rotary die cutter according to claim 26, wherein said at least one quick closing continuous closure panel formed by said die components runs end-to-end along the length of the carton blank.

28. (canceled)

29. (previously presented) The rotary die cutter according to claim 26, wherein the at least two closure panel die components each have a curved cut blade that cuts the outline of a hide away handle on fold-in panels formed on the carton blank.

30. - 39. (canceled)

40. (new) The rotary die cutter according to claim 26, wherein said means for securing of the adjustable die mounting clamps include slots with screws in the clamps for threading into threaded holes in the roller of the rotary die cutter.

41. (new) The rotary die cutter according to claim 26, wherein said plurality of die components include components having slots on their outer surfaces for receiving said adjustable die mounting clamps therein for securing the die components on the roller of the rotary die cutter.